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1 [XML templates and caching in WASH](#)

 Peter Thiemann

 August 2003 **Proceedings of the 2003 ACM SIGPLAN workshop on Haskell Haskell '03**

Publisher: ACM Press

Full text available:  [pdf\(129.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Caching of documents is an important concern on the Web. It is a major win in all situations where bandwidth is limited. Unfortunately, the increasing spread of dynamically generated documents seriously hampers traditional caching techniques in browsers and on proxy servers. WASH/CGI is a Haskell-based domain specific language for creating interactive Web applications. The Web pages generated by a WASH/CGI application are highly dynamic and cannot be cached with traditional means. We show how to i ...

Keywords: annotated languages, caching, web programming

2 [Generating hypermedia from specifications by sketching multimedia templates](#)

 S. Fraïssé, J. Nanard, M. Nanard

 February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: executable specification, hypermedia design, hypermedia generation, multimedia template, object-oriented

3 [Comparative analysis of five XML query languages](#)

 Angela Bonifati, Stefano Ceri

March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML is becoming the most relevant new standard for data representation and exchange on the WWW. Novel languages for extracting and restructuring the XML content have been proposed, some in the tradition of database query languages (i.e. SQL, OQL), others

more closely inspired by XML. No standard for XML query language has yet been decided, but the discussion is ongoing within the World Wide Web Consortium and within many academic institutions and Internet-related major companies. We present ...

4 XML query processing I: Composing XSL transformations with XML publishing views 

 Chengkai Li, Philip Bohannon, P. P. S. Narayan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available:  pdf(225.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While the XML Stylesheet Language for Transformations (XSLT) was not designed as a query language, it is well-suited for many query-like operations on XML documents including selecting and restructuring data. Further, it actively fulfills the role of an XML query language in modern applications and is widely supported by application platform software. However, the use of database techniques to optimize and execute XSLT has only recently received atten ...

5 The Purdue University network-computing hubs: running unmodified simulation tools 

 via the WWW

Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom

January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 10 Issue 1

Publisher: ACM Press

Full text available:  pdf(110.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

Keywords: Internet computing, network-computing, web-based simulation

6 Pushing reuse in hypermedia design: golden rules, design patterns and constructive templates 

 Marc Nanard, Jocelyne Nanard, Paul Kahn

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Publisher: ACM Press

Full text available:  pdf(1.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Session 3: Stylesheet transformations for interactive visualization: towards a Web3D chemistry curricula 

Nicholas F. Polys

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Publisher: ACM Press

Full text available:  pdf(574.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent Standards specifications offer important but underemployed techniques to maximize access-to and distribution-of information for real-time 3D visualization over the web. This paper describes and evaluates such techniques to transform structured data such as Chemical Markup Language (CML) to different forms and contexts for Web3D delivery using Extensible Stylesheet Transformations (XSLT), Extensible 3D (X3D), and VRML97. Standards design approaches offer a number of advantages: data durabi ...

Keywords: education, information visualization, interactive 3D graphics, molecular chemistry

8 Efficient evaluation of XML middle-ware queries

 Mary Fernandez, Atsuyuki Morishima, Dan Suciu

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

Full text available:  pdf(414.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the problem of efficiently constructing materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system evaluates a query by sending one or more SQL queries to the target relational database, integrating the resulting tuple streams, and adding the XML tags. We focus on how to best choose the SQL queries, without having control over the target RDBM ...

9 XML Applications: An incremental XSLT transformation processor for XML document manipulation

 Lionel Villard, Nabil Layaïda

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(486.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present an incremental transformation framework called incXSLT. This framework has been experimented for the XSLT language defined at the World Wide Web Consortium. For the currently available tools, designing the XML content and the transformation sheets is an inefficient, a tedious and an error prone experience.

Incremental transformation processors such as incXSLT represent a better alternative to help in the design of both the content and the transformation sheets. We belie ...

Keywords: XML, XSLT, authoring tools, incremental transformations

10 Virtual pet: an exercise in XML & XSLT

Jeanine Meyer

May 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 5

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(197.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

EXtensible Markup Language (XML) and eXtensible Stylesheet Language: Transformations (XSLT) are tools for creating and maintaining content-rich applications, such as Web documents. A virtual pet is a computer representation of a [simple] model of pet behavior incorporating mechanisms for owner actions. Starting with a HTML/JavaScript virtual dog script, the author describes the use of eXtended Markup Language (XML) and eXtended Stylesheet Language: Transformations (XSLT) to produce a generalized ...